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**SIGNATURE** \*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Receipt date: 09/07/2010 10585559 - GALL: 2128 Complete if Known Substitute for form 1449/PTO 10/585,559 Application Number March 5, 2008 Filing Date INFORMATION DISCLOSURE STATEMENT BY APPLICANT EL OUAIR First Named Inventor (Use as many sheets as necessary) 2628 Art Unit Examiner Name Not Yet Assigned Attorney Docket Number 3103.04WOUS 2 of 23 Sheet U.S. PATENT DOCUMENTS **Publication Date** Name of Patentee or Applicant **EXAMINER** Cite MM-YYYY of Cited Document No.1 Document Number INITIAL' Number-Kind Code<sup>2 (if known)</sup> 02-2005 Parise et al. US-2005/0035696 02-2005 Tsai US-2005/0040742 09-2006 Sodal US-2006/0202697 US-2005/264294 12-2005 Constable 01-2006 Chouzenoux et al. US- 2006/005965 05-2006 Amundsen US-2006/0103387 06-2007 Eidesmo et al. US-2007/0150201 Strack et al. US-2007/0294036 12-2007 03-2008 Rosten et al. US-2008/0065330 Schaug-Pettersen et al. 05-2008 US-2008/0122444 07-2008 Morrison et al. US-2008/0169817 Amundsen et al. US-2008/0221795 09-2008 10-2009 Helwig et al. US- 2009/0265111 Schaug-Pettersen 05-2009 US-2009/0134877 Schaug-Pettersen US-2010/0052688 03-2010 Mittet et al. 02-2010 US-2010/0045295 Amundsen 03-2010 US-2010/0057363 FOREIGN PATENT DOCUMENTS Foreign Patent Document **Publication Date** EXAMINER Cite  $T^6$ Name of Patentee or Applicant INITIAL' No.1 MM-YYYY of Cited Document Country Code<sup>3</sup> Number<sup>4</sup>Kind Code<sup>5</sup> (if known) 04-1992 Martinez EP 0481886 EP 0512756 11-1991 Exxon 03-1996 Sorensen EP 0568612 12-1997 Anadrill Int. EP 0814349 **EXAMINER** DATE **SIGNATURE** CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Receipt date: 09/07/2010 10585559 - GALL: 2128 Complete if Known Substitute for form 1449/PTO 10/585,559 Application Number March 5, 2008 INFORMATION DISCLOSURE Filing Date STATEMENT BY APPLICANT First Named Inventor **EL OUAIR** (Use as many sheets as necessary) 2628 Art Unit Not Yet Assigned **Examiner Name** 3103.04WOUS Attorney Docket Number 23 Sheet 4 of U.S. PATENT DOCUMENTS Name of Patentee or Applicant **EXAMINER Publication Date** Cite Document Number MM-YYYY of Cited Document INITIAL\* No.1 Number-Kind Code<sup>2 (if known)</sup> US-4,094,304 06-1978 Wright Jr. Wright Jr. US- 4,168,484 09-1979 09-1980 Fowler et al. US-4,218,678 10-1980 Schwalbe US-4,229,809 Schroeder US-4,245,191 01-1981 03-1981 Neale, Jr. US-4,258,321 03-1981 Rocroi et al. US-4,258,322 US-4,283,099 08-1981 Burton Yoshizumi US-4,296,379 10-1981 Bischoff et al. US-4,298,840 11-1981 12-1981 Thierbach et al. US-4,308,499 08-1983 Constant US-4,396,885 11-1983 Rocroi et al. US-4,417,210 05-1984 Sternberg et al. US-4,446,434 Meador 05-1984 US-4,451,789 06-1984 Pinner US-4,456,067 12-1984 Yu US-4,489,276 01-1985 Nilsson US-4,492,924 Washburn US-4,494,805 01-1985 FOREIGN PATENT DOCUMENTS Foreign Patent Document **Publication Date EXAMINER** Cite Name of Patentee or Applicant T<sup>6</sup> MM-YYYY INITIAL No.1 Country Code<sup>3</sup> Number<sup>4</sup>Kind Code<sup>5</sup> of Cited Document (if known) Ellingsrud et al. 03-2004 EP 1309887 12-2003 University of California EP 1512033 Duroux 10-1981 FR 2479992 02-1987 Blanpain et al. FR 2586302 01-1974 Russell GB 1342475 Shell Internationale 04-1981 GB 1588495

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Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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Receipt date: 09/07/2010 <u> 10585559 - GAH: 212</u>8 Complete if Known Substitute for form 1449/PTO Application Number 10/585,559 INFORMATION DISCLOSURE March 5, 2008 Filing Date STATEMENT BY APPLICANT First Named Inventor **EL OUAIR** (Use as many sheets as necessary) 2628 Art Unit Not Yet Assigned **Examiner Name** 3103.04WOUS Attorney Docket Number 23 Sheet 5 of U.S. PATENT DOCUMENTS Name of Patentee or Applicant **EXAMINER Publication Date** Cite INITIAL\* No.1 Document Number MM-YYYY of Cited Document Number-Kind Code<sup>2 (if known)</sup> US-4,500,146 02-1985 Peterson US-4,506,225 03-1985 Loveless et al. Peynaud et al. 05-1985 US-4,516,226 10-1985 **Thoraval** US-4,547,733 Peterson 04-1986 US-4,583,095 06-1986 Cox et al. US-4,594,551 10-1986 Lee et al. US-4,616,184 10-1986 Srnka US-4,617,518 **Dzwinel** 10-1986 US-4,633,182 Safinya 03-1987 US-4,652,829 04-1987 Newlove US-4,660,645 06-1987 Michiguchi et al. US-4,677,438 07-1988 Denzau et al. US-4,760,340 US-4,791, 998 12-1988 Hempkins et al. 12-1988 Jackson US-4,793,664 05-1989 Bostick Jr. US-4,835,473 05-1989 Parra et al. US-4,835,474 03-1990 Silver et al. US-4,906,575 FOREIGN PATENT DOCUMENTS Publication Date Foreign Patent Document **EXAMINER** Cite  $T^6$ MM-YYYY Name of Patentee or Applicant INITIAL' No.1 of Cited Document Country Code<sup>3</sup> Number<sup>4</sup>Kind Code<sup>5</sup> (if known) 12-1922 Alexander George GB 188676 **Roberts** 06-1982 GB 2089043 09-1985 Exxon GB 2155182 06-1988 Glasgow GB 2197952 Flowerdew et al. GB 2197078 05-1988 Flowerdew GB 220070 12-1989 DATE **EXAMINER** CONSIDERED

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Applicant's unique citation designation number (optional). 2See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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Receipt date: 09/07/2010 10585559 - GALL: 2128 Complete if Known Substitute for form 1449/PTO 10/585,559 Application Number March 5, 2008 INFORMATION DISCLOSURE Filing Date STATEMENT BY APPLICANT First Named Inventor **EL OUAIR** (Use as many sheets as necessary) 2628 Art Unit Examiner Name Not Yet Assigned 3103.04WOUS Attorney Docket Number 23 Sheet 6 of U.S. PATENT DOCUMENTS Name of Patentee or Applicant **Publication Date EXAMINER** Cite MM-YYYY of Cited Document INITIAL\* No.1 Document Number Number-Kind Code<sup>2 (if known)</sup> US- 4,926,394 05-1990 Doyen 09-1990 Patton et al. US-4,957,172 01-1991 Cantu US-4,986,354 US-4,992,995 02-1991 **Favret** Ramstedt 06-1991 US-5,025,218 07-1991 Ridd et al. US-5,032,794 08-1991 Chouzenoux US-5,039,179 Schofield 08-1991 US-5,043,667 11-1991 Rau US-5,066,916 Patton et al. 04-1992 US-5,103,920 12-1992 Cox US-5,170,440 01-1993 Cross US-5,177,445 02-1993 Stolarczykz US-5,185,578 Johler 03-1993 US-5,192,952 Kletzmaier et al. 06-1993 US-5,219,386 01-1994 Johler US-5,280,284 10-1994 Van Etten et al. US-5,357,253 12-1994 **Dhaemers** US-5,369,892 FOREIGN PATENT DOCUMENTS Publication Date Foreign Patent Document **EXAMINER** Cite  $T^6$ MM-YYYY Name of Patentee or Applicant INITIAL<sup>\*</sup> No.1 of Cited Document Country Code<sup>3</sup> Number<sup>4</sup>Kind Code<sup>5</sup> (if known) Radiodetection Limited GB 2220071 12-1989 Baker Hughes Inc. 12-1992 GB 2256715 07-1996 Geco AS GB 2296567 Sheehy 11-1990 GB 2231602 12-1996 Baker Hughes Inc. GB 2301902 **EXAMINER** DATE **CONSIDERED** SIGNATURE

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Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Receipt date: 09/07/2010 <u> 10585550..</u> Complete if Known Substitute for form 1449/PTO 10/585,559 Application Number Filing Date March 5, 2008 INFORMATION DISCLOSURE STATEMENT BY APPLICANT **EL OUAIR** First Named Inventor (Use as many sheets as necessary) Art Unit 2628 Examiner Name Not Yet Assigned 3103.04WOUS Attorney Docket Number 23 7 of Sheet U.S. PATENT DOCUMENTS Publication Date Name of Patentee or Applicant **EXAMINER** Cite INITIAL\* No.1 Document Number MM-YYYY of Cited Document Number-Kind Code<sup>2 (if known)</sup> US-5,373,443 12-1994 Lee et al. 03-1995 Duren et al. US-5,400,030 06-1995 McNamara et al. US-5,421,646 08-1995 Hoskins et al. US-5,444,619 Thompson et al. 01-1996 US- 5,486,764 US-5,563,513 10-1996 Tasci Keisling et al. US-5,564,806 10-1996 Meyer Jr. et al. 12-1996 US-5,581,024 Locatelli et al. 11-1997 US- 5,689,068 11-1997 Franklin US-5,690,401 US-5,704,142 11-1998 Stump Higgs et al. US-5,724,309 03-1998 Schroder US- 5,767,679 06-1998 US-5,770,945 06-1998 Constable Jackson 07-1998 US-5,777,478 US- 5,811,973 09-1998 Meyer, Jr. US-5,825,188 10-1998 Montgomery et al. US-5.838.634 11-1998 Jones FOREIGN PATENT DOCUMENTS **Publication Date** Foreign Patent Document **EXAMINER** Cite T<sup>6</sup> MM-YYYY Name of Patentee or Applicant INITIAL\* No.1 of Cited Document Country Code<sup>3</sup> Number<sup>4</sup>Kind Code<sup>5</sup> (if known) 07-1999 Geco AS GB 2333364 Norske Stats 04-2001 GB 2355538 01-2002 Haj-Yousef GB 2364390 GB 2382875 07-2001 Univ.South Hampton Westerngeco Ltd. GB 2384068 07-2003 09-2003 Statoil ASA GB 2385923 DATE **EXAMINER** CONSIDERED

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Receipt date: 09/07/2010 <u> 10585550 .</u> Complete if Known Substitute for form 1449/PTO 10/585,559 Application Number Filing Date March 5, 2008 INFORMATION DISCLOSURE STATEMENT BY APPLICANT **EL OUAIR** First Named Inventor (Use as many sheets as necessary) Art Unit 2628 Examiner Name Not Yet Assigned 3103.04WOUS Attorney Docket Number 23 8 of Sheet U.S. PATENT DOCUMENTS **EXAMINER Publication Date** Name of Patentee or Applicant Cite INITIAL\* No.1 Document Number MM-YYYY of Cited Document Number-Kind Code<sup>2 (if known)</sup> US-5,841,280 11-1998 Yu et al. Thompson et al. 03-1999 US-5,877,995 03-1999 Wu US-5,886,526 Meyer, Jr. et al. 04-1999 US-5,892,361 Schmidt et al. 04-1999 US-5,894,450 US-5,901,795 05-1999 Tsao et al. 05-1999 Celniker US-5,905,657 08-1999 Keskes US- 5,940,777 09-1999 Payton et al. US- 5,955,884 Crawford et al. 11-1999 US-5,987,388 US-5,996,414 12-1999 Mercado 12-1999 Redfern et al. US- 6,002,357 12-1999 Johnson et al. US-6,005,916 US-6,011,557 01-2000 Keskes et al. 02-2000 Minerbo US-6,023,168 US- 6,026,913 02-2000 Mandal et al. US-6,049,760 04-2000 Scott 05-2000 Meyer Jr. et al. US-6,060,884 FOREIGN PATENT DOCUMENTS Foreign Patent Document **Publication Date EXAMINER** Cite  $T^6$ MM-YYYY Name of Patentee or Applicant INITIAL\* No.1 of Cited Document Country Code<sup>3</sup> Number<sup>4</sup>Kind Code<sup>5</sup> (if known) 01-2004 MacGregor et al. GB 2390904 Schlumberger Holdings 02-2004 GB 2391946 05-2004 MacGregor et al. GB 2395563 09-2004 Eidesmo et al. GB 2399640 Sodal GB 2404444 02-2005 MacGregor et al. 08-2005 GB 2411006 DATE **EXAMINER** CONSIDERED

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Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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Receipt date: 09/07/2010 10585559 - GALL: 2128 Complete if Known Substitute for form 1449/PTO 10/585,559 Application Number March 5, 2008 Filing Date INFORMATION DISCLOSURE STATEMENT BY APPLICANT **EL OUAIR** First Named Inventor (Use as many sheets as necessary) 2628 Art Unit Not Yet Assigned **Examiner Name** 3103.04WOUS Attorney Docket Number Sheet 9 of 23 U.S. PATENT DOCUMENTS Name of Patentee or Applicant Publication Date **EXAMINER** Cite MM-YYYY of Cited Document INITIAL\* No.1 Document Number Number-Kind Code<sup>2 (if known)</sup> 05-2000 Tabarovsky et al. US-6.060.885 Stucker et al. 05-2000 US-6,061,412 07-2000 Jackson US-6,087,833 Ikelle et al. US-6,101,448 08-2000 Doyle et al. 08-2000 US-6,108,605 09-2000 Smith US-6,114,972 10-2000 Peterman et al. US-6,140,819 Vail, III 12-2000 US-6,157,195 **Bittar** 12-2000 US-6,163,155 Hagiwara et al. 01-2001 US-6,181,138 02-2001 Paulk et al. US-6,184,685 07-2001 Van de Kop et al. US-6,188,221 Seydoux et al. 02-2001 US-6,188,222 Millar et al. 05-2001 US-6,225,806 Wynn 05-2001 US-6,236,211 05-2001 Wynn US- 6,236,212 06-2001 Vail, III US-6,246,240 09-2001 **Nichols** US-6,294,917 01-2002 Kuo US-6,339,333 **FOREIGN PATENT DOCUMENTS** Publication Date Foreign Patent Document **EXAMINER** Cite  $T^6$ Name of Patentee or Applicant MM-YYYY INITIAL' No.1 of Cited Document Country Code<sup>3</sup> Number<sup>4</sup>Kind Code<sup>5</sup> (if known) Ellingsrud et al. 10-2005 GB 2413187 10-2005 Ellingsrud et al. GB 2413188 Amundsen et al. 12-2005 GB 2415511 07-2006 Svien GB 2421800 Schlumberger Holdings GB 2425182 10-2006

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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include

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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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			reflecting tr	ty curves in controlled-source electromagnetic ng true resistivities in a layered earth" Vol. 60, No. 1,							

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Explorations, Scripps Institute of Oceanography, Vol. 4, No. 2, 1997

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		Mode	eling and Ex		sign", Jo	ournal of Geop	nagnetic Sounding 1. ohysical Research, Vol.			
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		Mac	Gregor et al.	"Use of Marii	ne Contro	olled Source F	Electromagnetic Sounding	
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·····		MacGregor et al., "The RAMESSES Experiment – III. Controlled-Source Electromagnetic Sounding of the Reykjanes Ridge", 135 Geophys. J. Int. 773-89 (July 1998).										
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		MIT	ΓΕΤ, R., et a	ıl., "Inversion	of SBL data acquired	in shallow waters," paper pgs., (June 6-10, 2004).						
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		Opde	rbecker, "At-	-Sea Calibrati	ion of a USBL Underv	vater Vehicle Positioning					
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			Vol.1 pp. 721-726 (October 1997)								
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STATEMENT BY APPLICANT (Use as many sheets as necessary)				First Named Inventor	EL OUAIR			
				Art Unit	2628			
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EXAMINER INITIAL*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published						
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					First Named Inventor	EL OUAIR			
					Art Unit 2628				
					Examiner Name	Not Yet Assigned			
Sheet	21		of 23		Attorney Docket Number	er 3103.04WOUS			
	<u> </u>			PATENT L	ITERATURE DOCUMI	ENTS			
EXAMINER INITIAL	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published							
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		Elling	gsrud as avail	able on PAI	R at www.uspto.gov.	9, issued 02.24.2004, inventor			
		Elling	gsrud as avail	able on PAI	R at www.uspto.gov.	4, issued 03.08.2005, inventor			
		inven	tor Ellingsru	d as availabl	e on PAIR at www. uspto.	585,992, filed 10.24.2006, gov. 585,991, filed 10.24.2006,	_		

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Application and File History of U.S. Patent No. 6,717,411, issued 04.06.04, inventor

DATE

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inventor Ellingsrud as available on PAIR at www.uspto.gov.

Ellingsrud as available on PAIR at www.uspto.gov.

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ot date: 09/07/2010					10585559 - GAU · 2  Complete if Known				
Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT				O	Application Number 10/585,559				
				JRE	Filing Date	March 5, 2008			
					First Named Inventor	EL OUAIR			
(Use as many sheets as necessary)					Art Unit	2628			
					Examiner Name	Not Yet Assigned			
Sheet 22 of 23				23	Attorney Docket Number	3103.04WOUS			
11001	122		NON PATENT LITERATURE DOCUMENTS						
XAMINER INITIAL	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published							
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		Appli	ication and Fil	e History of U		1, issued 12.05.06, inventor			
		Appli	cation and Fil	e History of U	I.S. Publication No. 201 rsen, as available on PA				
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~-		Appli	ication and Fil	e History of U		441,632, filed 09.24.09,			

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known							
				Application Number	10/585,559						
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EXAMINER INITIAL*	Cite No. <sup>1</sup>	Include name of the a	nuthor (in CAPITA	AL LETTERS), title of the art	ticle (when appropriate), title of the e, page(s), volume-issue number(s),	T <sup>2</sup>					
		Application and File History of U.S. Patent No. 7,149,672, issued 12.12.06, inventor Torkildsen, as available on PAIR at www.uspto.gov.									
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	-	inventor Ridyard, as available on PAIR at www.uspto.gov.									
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		Application and File History of U.S. Patent No. 6,834,732, issued 12.28.2004, inventor									
		Haarstad, as availa	ble on PAIR a	t www.uspto.gov.							
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12/13/2010